



6DK6

SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

6DK6

DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances:0

Grid No.1 to plate 0.02 max. μ f

Grid No.1 to cathode, grid No.3 &
internal shield, grid No.2, and
heater 6.3 μ f

Plate to cathode, grid No.3 & internal
shield, grid No.2, and heater. 1.9 μ f

Characteristics, Class A₁ Amplifier:

Plate-Supply Voltage 125 volts

Grid-No.3. *Connected to cathode at socket*

Grid-No.2-Supply Voltage 125 volts

Cathode Resistor 56 ohms

Plate Resistance (Approx.) 0.35 megohm

Transconductance 9800 μ hos

Plate Current. 12 ma

Grid-No.2 Current. 3.8 ma

Grid-No.1 Voltage (Approx.) for
plate μ a = 20. -6.5 volts

Mechanical:

Operating Position Any

Maximum Overall Length 2-1/8"

Maximum Seated Length. 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" $\pm$ 3/32"

Diameter 0.650" to 0.750"

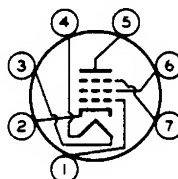
Dimensional Outline. *See General Section*

Bulb T5-1/2

Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW 7CM

Pin 1-Grid No.1
Pin 2-Cathode
Pin 3-Heater
Pin 4-Heater
Pin 5-Plate



Pin 6-Grid No.2
Pin 7-Grid No.3,
Internal
Shield

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 330 max. volts

GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE. 0 max. volts

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE 330 max. volts

0: See next page.

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GRID-No.2 VOLTAGE.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive-bias value.	0 max.	volts
GRID-No.2 INPUT:		
For grid-No.2 voltages up to 165 volts.	0.55 max.	watt
For grid-No.2 voltages between 165 and 330 volts.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	
PLATE DISSIPATION.	2.3 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 [▲] max.	volts
Maximum Circuit Values:		
Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.25 max.	megohm
For cathode-bias operation	1 max.	megohm

[○] Without external shield.

[▲] The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
GRID N^o3 CONNECTED TO
CATHODE AT SOCKET.
GRID-N^o2 VOLTS = 125

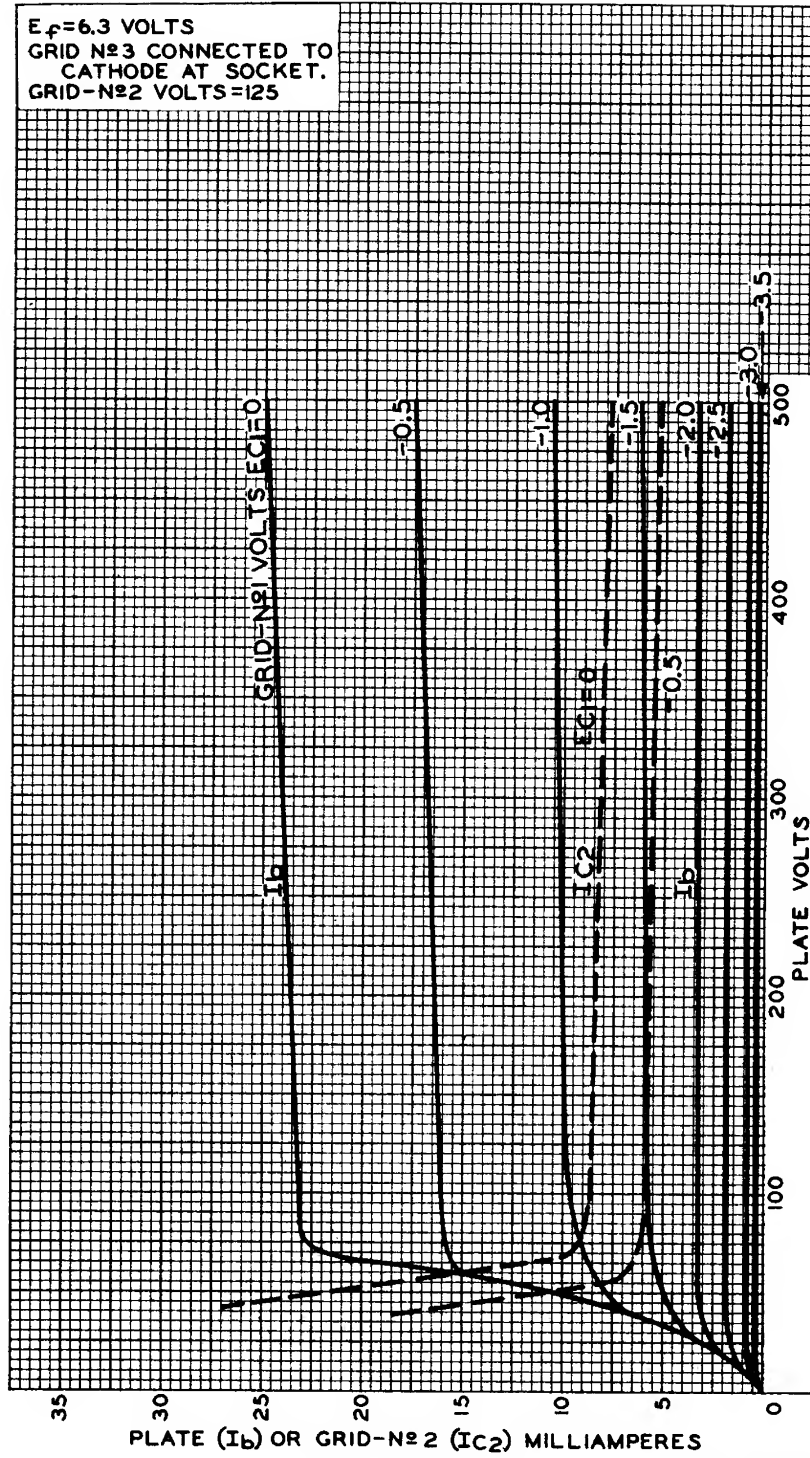


PLATE (I_b) OR GRID-N^o2 (I_{C2}) MILLIAMPERES

ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-985IRI

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AVERAGE CHARACTERISTICS

